

a transceiver for transmitting and receiving signals, disposed inside said palm-sized body;

a plurality of sensors to sense and output blood flow rate data of a user holding the wireless mobile phone with one of the user's hands, with the sensors being distributively disposed at a plurality of locations of the palm-sized body to facilitate having at least a subset of said sensors to contact the holder user's holding hand including at least one of the holding hand's finger and palm; and

means disposed within said palm-sized body and coupled to the sensors to infer a manner the wireless mobile phone is being held by one of the user's hands, as characterized by the sensor contact configuration of the holding hand's finger/palm, and to generate a heart rate of the user using a subset of the blood flow rate data output by said sensors, based at least in part on the inferred hand holding manner characterized by the sensor contact configuration of the holding hand's finger/palm.

9. (Twice Amended) A personal digital assistant (PDA) comprising:

a palm-sized body;

memory disposed within said palm-sized body;

a processor disposed with said palm-sized body and coupled to the memory;

a plurality of sensors to sense and output blood flow rate data of a user holding the PDA with one of the user's hands, with the sensors being distributively disposed at a plurality of locations of the palm-sized body to facilitate having at least a subset of said sensors to contact the holder user's holding hand including at least one of the holding hand's finger and palm; and

means disposed within said palm-sized body and coupled to the sensors to infer a manner of the PDA is being held by one of the user's hand, as characterized by the sensor contact configuration of the holding hand's finger/palm, and to generate a heart rate of the user using a subset of the blood flow rate data output by said sensors, based at least in part on the inferred hand holding manner characterized by the holding hand's finger/palm configuration characterized by the sensor contact configuration of the holding hand's finger/palm.

17. (Twice Amended) A mobile client device comprising:

a palm-sized body;

a plurality of sensors to sense and output blood flow rate data of a user holding the mobile client device with one of the user's hands, with the sensors being distributively disposed at a plurality of locations of the palm-sized body to facilitate having at least a subset of said sensors to be in contact with the holder user's holding hand including at least one of the holding hand's finger and palm; and

means disposed within said palm-sized body and coupled to the sensors to infer a manner the mobile client device is being held by one of the user's hands, as characterized by the sensor contact configuration of the holding hand's finger/palm, and to generate a heart rate of the user using a subset of the blood flow rate data output by said sensors, based at least in part on the inferred hand holding manner characterized by the sensor contact configuration of the holding hand's finger/palm.